Translation

## PATENT COOPERATION TRE



## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file re 2148/Dr.BrN		FOR FURTHER AC	TION	See Form PCT/IPEA/416	
International application No.		International filing dat	e (day/month/year)	Priority date (day/month/year)	
PCT/EP2003/01	1546	18 October 2003	3 (18.10.2003)	19 December 2002 (19.12.2002)	
International Patent Classific C09D 4/06	cation (IPC) or n	ational classification and	I IPC		
Applicant		RÖHM GMBI	H & CO. KG		
This report is the in Authority under Art	ternational prelinticle 35 and trans	minary examination repo smitted to the applicant a	ort, established by this according to Article 3	s International Preliminary Examining 6.	
2. This REPORT cons	sists of a total of	5 sheets,	including this cover	sheet.	
3. This report is also a	ccompanied by	ANNEXES, comprising:			
a. X (sent to t	he applicant and	l to the International Bu	reau) a total of 4	sheets, as follows:	
l l		taining rectifications au		peen amended and are the basis of this report ority (see Rule 70.16 and Section 607 of the	
	heets which sup beyond the disclo Supplemental Bo	osure in the internationa	t which this Authorit I application as filed,	y considers contain an amendment that goes as indicated in item 4 of Box No. I and the	
readable		, contai ndicated in the Supplen	ning a sequence listi	ype and number of electronic carrier(s)) ng and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the	
		ating to the following ite	ms:		
Box No. I	Basis of the re	enort			
Box No. II	Priority	opo.:			
Box No. III	-	nment of opinion with re	gard to novelty, inver	ntive step and industrial applicability	
Box No. IV	Lack of unity	<u>-</u>	<b>5</b>	••••••	
Box No. V	·		2) with regard to nov	relty, inventive step or industrial applicability;	
Box No. VI		explanations supporting			
Box No. VII		<del>-</del>	nlication		
Box No. VII Certain defects in the international application  Box No. VIII Certain observations on the international application					
		valions on the meetical	nai appiioation		
Date of submission of the demand		Date of completion of this report			
05 February 2004 (05.02.2004)		17	March 2005 (17.03.2005)		
Name and mailing address of the IPEA/EP			Authorized officer		
Facsimile No.			Telephone No.		



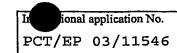
### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

mernational application No.

PCT/EP2003/011546

DUX INO.		Basis of the report							
1. With other	regard wise ir	to the language, this report is based on the international application in the landicated under this item.	guage in which it was filed, unless						
	This whic	report is based on translations from the original language into the following h is language of a translation furnished for the purpose of:	g language,						
		international search (under Rules 12.3 and 23.1(b))							
	publication of the international application (under Rule 12.4)								
		international preliminary examination (under Rules 55.2 and/or 55.3)							
<ul> <li>2. With regard to the elements of the international application, this report is based on (replacement sheets which have bee furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not annexed to this report):</li> <li>The international application as originally filed/furnished</li> </ul>									
$\boxtimes$	the de	scription:							
	pages	1-31	, as originally filed/furnished						
	pages	received by this Authority on							
	pages	* received by this Authority on							
$\boxtimes$	the cl	aims:							
	pages	22	, as originally filed/furnished						
	pages	, as amended (tog	ether with any statement) under Article 19						
	pages		14 December 2004 (14.12.2004)						
	pages	received by this Authority on							
	the dr	awings:							
	pages		, as originally filed/furnished						
	pages	received by this Authority on							
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	a segi	ence listing and/or any related table(s) – see Supplemental Box Relating to Se							
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3	The a	mendments have resulted in the cancellation of:							
	$\sqcup$	the description, pages							
	Ш	the claims, Nos.							
		the drawings, sheets/figs							
		the sequence listing (specify):							
		any table(s) related to sequence listing (specify):							
4.	made,	eport has been established as if (some of) the amendments annexed to this r since they have been considered to go beyond the disclosure as filed, as 70.2(c)).  the description, pages	eport and listed below had not been indicated in the Supplemental Box						
		olies, some or all of those sheets may be marked "superseded."							

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT



V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

. Statement	•		
Novelty (N)	Claims	1-21	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-21	NO NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims		NO

#### 2. Citations and explanations

Reference is made to the following documents:

D1: EP-A-0 730 011 (ROEHM GMBH) 4 September 1996 (1996-09-04), mentioned in the application

D2: EP-A-0 628 614 (ROEHM GMBH) 14 December 1994 (1994-12-14), mentioned in the application

#### 1. Novelty

The present application appears to satisfy the requirements of PCT Article 33(2) because the subject matter of claims 1-21 is novel with respect to the available documents.

#### 2. Inventive Step

The present application does not satisfy the requirements of PCT Article 33(3) because the subject matter of claims 1-21 does not involve an inventive step.

#### 2.1.

Document D1, which is considered the closest prior art, discloses a coating agent for scratch-resistant coatings of plastic bodies, consisting of (page 3, lines 14-27):

- (1) 1-30 percent by weight of a polymerizable prepolymer as a thickening agent obtainable by radical polymerization of
  - 1a) 90 to 99 percent by weight C1 to C8 alkyl esters of acrylic or methacrylic acid and
  - 1b) 1 to 10 percent by weight of a sulfur regulator with at least three thiol groups
- (2) 20 to 80 percent by weight of multifunctional acrylates and/or multifunctional methacrylates
- (3) 5 to 75 percent by weight of a diluting agent
- (4) 0.01 to 10 percent by weight of a UV initiator
- (5) 0 to 20 percent by weight of conventional additives, particularly UV absorbers,

from which the subject matter of claim 1 differs in that 2,2,3,3-tetrapropyl methacrylate is contained as fluoralkyl (meth)acrylate, with only four fluorine atoms in the alcohol residue (page 5, line 19). The applicant has not demonstrated that the differentiating feature is the cause of the technical effect. For this reason, the technical problem can be seen only as that of preparing a further fluoralkyl (meth)acrylate in a coating agent for producing scratch-resistant coatings. Document D2 (page 3, lines 4-19) describes, as a differentiating feature, the use of (meth)acrylates with CH<sub>2</sub>-CH<sub>2</sub>-(CF<sub>2</sub>CF<sub>2</sub>)<sub>n</sub>F fluoric alcohol residues, such as 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafluoro decyl acrylate and

3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14, 15,15,16,16,17,17,18,18,19,19,20,20,20-heptatriacontafluoro eicosyl acrylate in a coating agent for scratch-resistant coatings of plastic bodies (page 4, lines 54-56).

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

A person skilled in the art, proceeding from D1 in order to find an alternative fluoralkyl (meth)acrylate for coating agents for scratch-resistant coatings of plastic bodies, would find indications in document D2 of the solution to this general problem, i.e. said person would arrive at an alternative by incorporating the fluoralkyl (meth)acrylates disclosed in D2.

Therefore, an inventive step cannot be acknowledged for claim 1.

#### 2.2.

Moreover, the subject matter of claims 2-21 is disclosed in document D1.

Therefore, no inventive step with respect to documents D1 and D2 can be acknowledged for the subject matter of claims 2-21.